

Livestock, Dairy, and Poultry

Livestock: Record highs and lows

Livestock	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Cattle and calves	1,000 head	2,036	1944	538	1867	1867
Cattle on feed	1,000 head	200	2000	57	1931	1930
Chickens, all ¹	1,000 birds	15,512	1944	6,190	1997	1924
Cows, beef	1,000 head	239	1977	24	1925,1933	1920
Cows, milk	1,000 head	1,080	1945	225	1867	1867
Eggs ²	Million eggs	1,771	2002	1,104	1929	1924
Hogs and pigs ¹	1,000 head	1,397	1943	512	1934	1867
Honey	1,000 pounds	11,780	1939	4,386	1980	1921
Milk	Million pounds	5,945	2002	3,941	1927	1924
Sheep	1,000 head	3,100	1867	62	1999	1867
Wool	1,000 pounds	8,424	1934	430	1998	1934

¹ December 1.

² December 1 previous year to November 30.

Cattle and Calves

The January 1, 2003, Michigan cattle herd totaled 990,000 head, unchanged from a year ago. The milk cow inventory, at 301,000 head, was up 1 percent from the previous year. Milk cow replacement heifers were steady at 135,000. Beef cows, at 89,000 head, were up 22 percent from last year. Calves on hand were at 175,000, down 23,000 from last year. Beef cow replacement heifers, at 35,000 head, were up 5,000 head. The 2002 calf crop was 340,000 head, up 5,000 from last year. Steer numbers were steady at 195,000 head. Other heifers dropped to 42,000 from

45,000, while bulls at 18,000 head were up by 1,000. Cattle on full feed for slaughter totaled 180,000 head, down 10,000 from last year. Michigan has 15,000 operations with cattle, down 500 from a year ago.

The January 1 Michigan cattle and calf inventory was valued at \$871 million, down 3 percent from January 1, 2002. Cash receipts from cattle and calf marketings totaled \$205 million, while total liveweight marketed was 364 million pounds.

Cattle and calves: Number of operations by size group, 1998-2002 ¹

Size group by head	Year				
	1998	1999	2000	2001	2002
1-49 head	11,000	11,200	11,200	10,800	10,400
50-99 head	2,280	2,170	2,200	2,100	2,040
100-499 head	2,500	2,400	2,350	2,350	2,300
500-999 head	160	170	190	180	180
1000 + head	60	60	60	70	80
Total	16,000	16,000	16,000	15,500	15,000

¹ An operation is any place having one or more head of cattle on hand at any time during the year.

Cattle and calves: Number on farms by class, January 1, 1999-2003

Class	1999	2000	2001	2002	2003
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
All cows that have calved	405	395	385	370	390
Beef cows	105	95	85	73	89
Milk cows	300	300	300	297	301
Heifers, 500 pounds and over	222	205	210	210	212
Beef cow replacement	32	30	35	30	35
Milk cow replacement	145	125	130	135	135
Other	45	50	45	45	42
Steers, 500 pounds and over	195	200	190	195	195
Bulls, 500 pounds and over	18	18	17	17	18
Calves, under 500 pounds	210	192	178	198	175
All cattle and calves	1,050	1,010	980	990	990

Cattle and calves: Production and income, 1998-2002

Year	Production ¹	Marketings ²	Average price per cwt		Value of production	Cash receipts ⁴	Value of home consumption	Gross income
			All beef ³	Calves				
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
1998	385,229	411,250	47.70	51.70	183,321	196,656	7,465	204,121
1999	405,770	461,250	50.50	68.90	200,427	235,829	8,067	243,896
2000	407,661	446,600	56.00	102.00	220,474	255,892	9,183	265,075
2001	353,634	376,750	58.80	109.00	204,736	227,930	7,467	235,397
2002	363,562	363,540	54.20	104.00	191,624	204,628	6,894	211,522

¹ Adjustments made for changes in inventory and for inshipments.

² Excludes custom slaughter for use on farms where produced and inter-farm sales within the State.

³ Combined price for "Cows" and "Steers and Heifers".

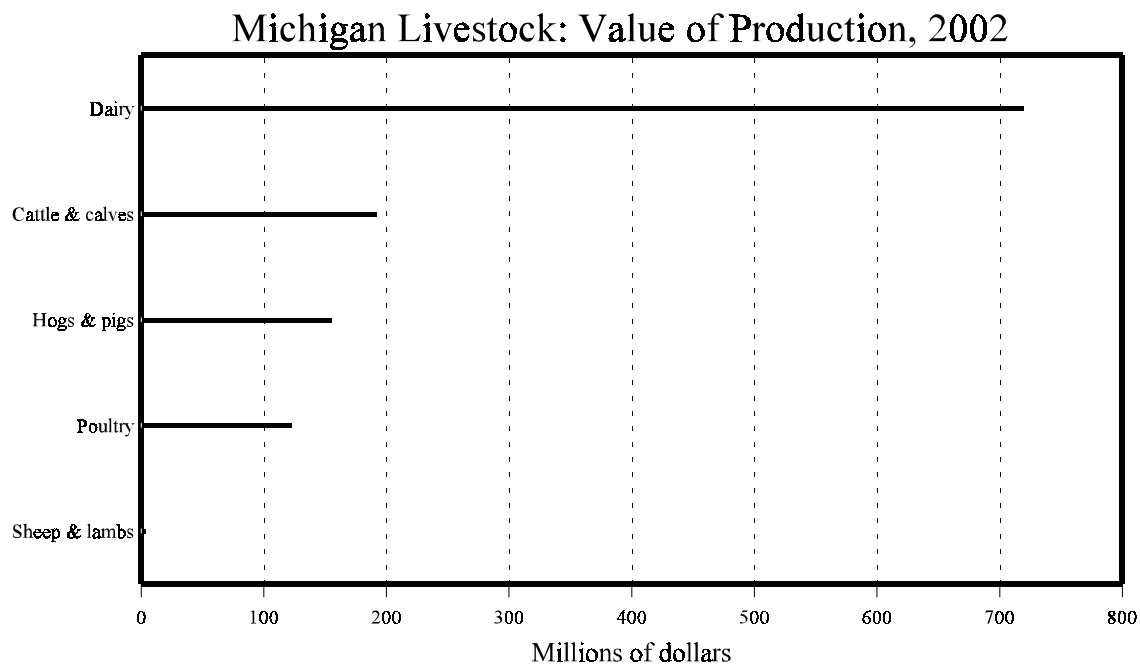
⁴ Receipts from marketings and sale of farm slaughter.

Cattle and calves: Balance sheet, 1998-2002

Year	All cattle and calves on hand January 1	Calf crop	Inshipments	Marketings ¹		Farm slaughter cattle and calves ²	Deaths		All cattle and calves on hand following January 1
				Cattle	Calves		Cattle	Calves	
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
1998	1,050	365	65	308	37	5	25	55	1,050
1999	1,050	355	70	338	47	5	25	50	1,010
2000	1,010	345	55	318	38	5	22	47	980
2001	980	335	50	266	36	4	24	45	990
2002	990	340	41	264	40	4	25	48	990

¹ Includes custom slaughter and state outshipments, but excludes inter-farm sales within the State.

² Excludes custom slaughter for farmers at commercial establishments.



Poultry

The total value of poultry production in Michigan from eggs, turkeys, and other chickens (primarily culled layers) during 2002 was \$122 million, 4 percent more than a year earlier. The value of egg production totaled \$59.5 million, down 3 percent from 2001. Egg production totaled 1.77 billion eggs, up 6 percent from last year. The market egg price averaged 40 cents per dozen, down 8 percent from 2001. The value of turkey production during 2002

was \$62.8 million, up 11 percent. The total pounds of turkey produced was 180 million, up 11 percent. The average price per pound was 35 cents, the same as last year. Other chicken production, at 3.62 million birds, was up 1 percent. Other chicken production was valued at \$13,000, down 90 percent from 2001.

Chickens: Layers on hand, December 1, 1998-2002

Class	1998	1999	2000	2001	2002
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
Layers, 1 year old and older	3,310	2,174	3,480	4,491	5,149
Layers, 20 weeks old but less than 1 year	2,441	4,013	2,825	2,243	1,682
Pullets, 13-20 weeks old	286	537	569	285	606
Pullets, less than 13 weeks	704	1,060	721	985	664
Other chickens	3	3	1	1	
All chickens (excluding broilers)	6,744	7,787	7,596	8,005	8,101

Turkeys: Production and value, 2000-2002 ¹

Year	Number raised ²	Pounds produced	Price per pound ³	Value of production
	<i>Thousands</i>	<i>1,000 pounds</i>	<i>Cents</i>	<i>1,000 dollars</i>
1999	2,700	85,590	41.1	35,092
2000	3,500	119,000	34.0	40,460
2001	4,500	162,000	35.0	56,700
2002	4,800	179,520	35.0	62,832

All eggs: Production and value, 1998-2002

Year	Eggs produced	Price per dozen	Value of production
	<i>Million</i>	<i>Dollars</i>	<i>1,000 dollars</i>
1998	1,395	0.496	57,639
1999	1,533	0.420	53,655
2000	1,617	0.419	56,464
2001	1,677	0.437	61,063
2002	1,771	0.403	59,459

¹ December 1 previous year through November 30.

² Based on turkeys placed Sep 1 through Aug 31. Excludes young turkeys lost.

³ Equivalent live weight returns to producers.

All egg production, by month, 1998-2002

Month	1998	1999	2000	2001	2002
	<i>Million eggs</i>	<i>Million eggs</i>	<i>Million eggs</i>	<i>Million eggs</i>	<i>Million eggs</i>
December	115	132	140	142	147
January	111	130	134	139	139
February	102	115	122	127	130
March	120	129	143	149	149
April	110	122	135	144	148
May	111	121	130	142	153
June	111	117	131	139	147
July	118	130	142	141	155
August	124	137	137	133	156
September	120	129	131	129	146
October	126	134	136	143	150
November	125	136	135	148	150
Total ¹	1,395	1,533	1,617	1,677	1,771

¹ Sum of months may not add to total due to rounding.

All layers: Average number on hand during the month, 1998-2002

Month	1998	1999	2000	2001	2002
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
December	5,796	5,763	6,206	6,155	6,641
January	5,058	5,770	6,178	6,114	6,483
February	5,098	5,898	6,271	6,315	6,438
March	5,282	5,923	6,484	6,700	6,488
April	5,202	5,656	6,321	6,802	6,846
May	5,128	5,659	6,136	6,643	7,002
June	5,097	5,799	6,325	6,537	6,786
July	5,291	5,863	6,379	6,370	6,815
August	5,541	5,827	6,168	6,369	6,793
September	5,586	5,847	6,073	6,473	6,656
October	5,621	6,089	6,110	6,567	6,589
November	5,704	6,189	6,209	6,659	6,698
Annual ¹	5,318	5,856	6,238	6,475	6,686

¹ December 1 previous year through November 30.

Hogs and Pigs

Michigan hog production totaled 503.5 million pounds in 2002, up 2.5 percent from 2001. Based on the December 1, 2002 inventory of 860,000 hogs and pigs, Michigan ranked 13th in the nation in terms of inventory.

Breeding inventory accounted for 11.5 percent of the total inventory, while market hogs made up the remaining 88.5 percent. Historically, Cass, Allegan, Ottawa, Branch and Huron have been

the top five hog producing counties.

The annual average price for all hogs was \$30.70 per cwt for 2002, compared with the 2001 average price of \$41.70 per cwt.

Marketings of all hogs and pigs totaled 522.9 million pounds in 2002, up 4 percent from 2001. Cash receipts decreased 22 percent from the previous year to \$166 million.

Hogs and pigs: Number of operations, by size group, 1998-2002 ¹

Year	Operations						
	1-99	100-499	500-999	1,000-1,999	2,000-4,999	5,000+	Total
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
1998	1,900	500	100	150	120	30	2,800
1999	1,200	500	100	130	130	40	2,100
2000	1,700	390	110	140	120	40	2,500
2001	1,700	430	90	110	130	40	2,500
2002	1,500	450	90	100	115	45	2,300

¹ An operation is any place having one or more head on hand at any time during the year.

Hogs and pigs: Sows farrowing and pig crop, 1998-2003

Year	December-February ¹			March-May		
	Sows farrowing	Pigs per litter	Pig crop	Sows farrowing	Pigs per litter	Pig crop
	<i>1,000 head</i>	<i>head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>head</i>	<i>1,000 head</i>
1999	37	9.00	333	55	8.90	490
2000	44	8.80	387	50	9.00	450
2001	46	8.75	403	50	8.90	445
2002	50	9.00	450	50	8.85	443
2003	43	8.80	378	44	9.00	396
	June-August			September-November		
1998	52	8.90	463	52	8.50	442
1999	51	9.00	459	49	9.00	441
2000	50	8.90	445	48	9.05	434
2001	52	9.10	473	46	9.15	421
2002	55	9.05	498	42	9.10	382

¹ December of previous year.

Hogs and pigs: Inventory, 1999-2003

Month and year	Market hogs and pigs					Breeding stock	Total hogs and pigs
	Under 60 pounds	60-119 pounds	120-179 pounds	180 lbs and over	Total market		
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
March 1							
1999	280	225	190	185	880	110	990
2000	295	215	170	160	840	120	960
2001	310	185	160	125	780	120	900
2002	310	215	165	150	840	120	960
2003	270	190	165	145	770	100	870
June 1							
1999	430	220	200	130	980	120	1,100
2000	390	200	160	130	880	110	990
2001	315	215	155	125	810	110	920
2002	310	205	155	140	810	110	920
September 1							
1999	310	260	190	160	920	110	1,030
2000	360	230	180	140	910	110	1,020
2001	330	225	175	130	860	110	970
2002	315	210	160	135	820	120	940
December 1							
1999	330	205	170	155	860	120	980
2000	320	200	170	150	840	110	950
2001	315	205	170	160	850	110	960
2002	285	180	145	150	760	100	860

Hogs and pigs: Production and income, 1998-2002

Year	Production ¹	Marketings ²	Average price per cwt	Value of production	Cash receipts ³	Value of home consumption	Gross income
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
1998	402,708	403,550	33.90	132,639	138,347	1,393	139,740
1999	466,637	494,787	29.80	136,678	149,937	1,229	151,166
2000	464,577	483,775	40.70	184,575	200,485	1,662	202,147
2001	491,070	499,800	41.70	200,748	212,599	1,695	214,294
2002	503,473	522,925	30.70	154,926	165,928	1,171	167,099

¹ Adjustments made for changes in inventory and for inshipments.

² Excludes custom slaughter for use on farms where produced and inter-farm sales within the state.

³ Receipts from marketing and sales of farm slaughter. Includes allowance for higher average price of outshipments of feeder pigs.

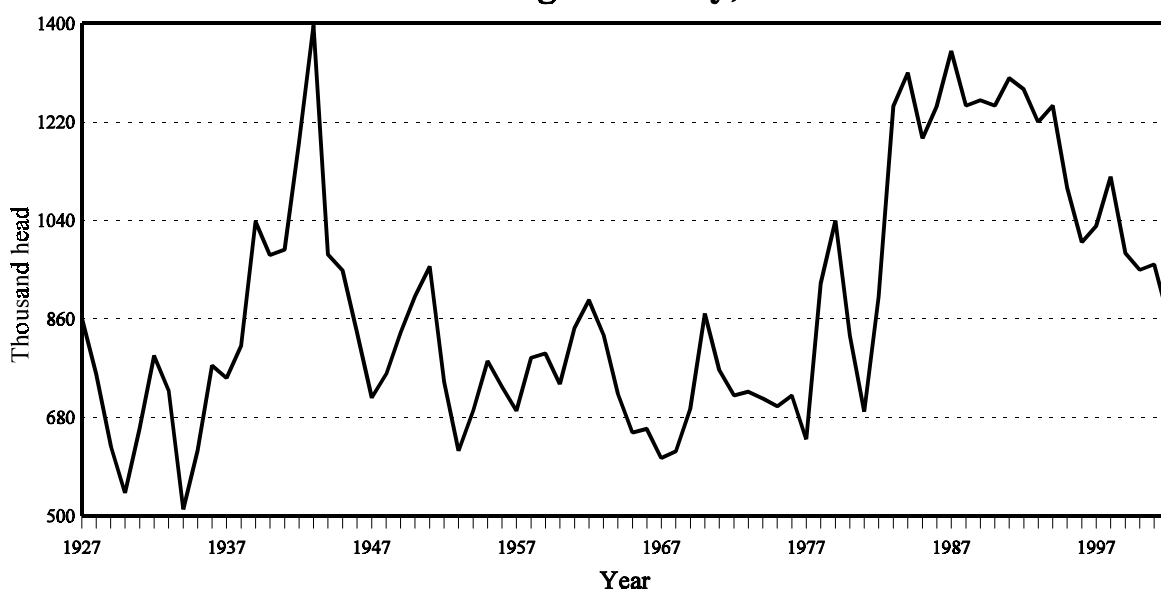
Hogs and pigs: Balance sheet, 1998-2002

Year	Beginning inventory	Dec-Nov pig crop	Inshipments	Marketings ¹	Farm slaughter ²	Deaths	Number on hand December 1
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
1998	1,030	1,729	125	1,683	6	75	1,120
1999	1,120	1,723	225	1,999	4	85	980
2000	980	1,716	275	1,937	4	80	950
2001	950	1,742	280	1,930	4	78	960
2002	960	1,773	235	2,030	4	74	860

¹ Includes custom slaughter and state outshipments, but excludes sales within Michigan.

² Excludes custom slaughter for farmers at commercial establishments.

December 1 Hog Inventory, 1927-2002



Honey

Honey production in Michigan during 2002 totaled 5.54 million pounds, 21 percent more than a year ago. This estimate included honey from producers with 5 or more colonies. Michigan ranked 11th in honey production in 2002 compared to 12th in 2001. There were 72,000 colonies in production during 2002, down 4,000 colonies from 2001. Yield per colony averaged 77 pounds, up 17

pounds from 60 pounds in 2001.

Michigan honey prices averaged \$1.34 per pound, up 53 cents from last year. Value of production totaled \$3.69 million, up 4 percent from 2001. Honey stocks on hand for sale, as of December 15, totaled 1.89 million pounds, down 33 percent from 2001.

Honey: Production and value, 1998-2002 ¹

Year	Honey producing colonies	Yield per colony	Production	Price per pound	Value of production	Stocks Dec 15 ²
	<i>Thousands</i>	<i>Pounds</i>	<i>1,000 pounds</i>	<i>Cents</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>
1998	80	85	6,800	66	4,488	3,672
1999	73	85	6,205	66	4,095	3,475
2000	72	75	5,400	60	3,240	2,970
2001	76	60	4,560	81	3,694	2,827
2002	72	77	5,544	134	7,429	1,885

¹ Includes only producers with 5 or more colonies.

² Stocks held by producers.

Dairy

Milk production in Michigan during 2002 was 5,945 million pounds, up 1.3 percent from 2001. Michigan ranked eighth nationally in milk production in 2002, accounting for 3.5 percent of U.S. production.

The annual average number of milk cows on Michigan farms during 2002 was 299,000 head, down 4,000 from the previous year. The number of operations with milk cows fell to 3,200 from 3,300

in 2001. Milk production per cow was 19,883 pounds in 2002, compared with 19,373 pounds during 2001. The average butterfat content was 3.62 percent compared with 3.63 percent in 2001.

Milk prices during the year averaged \$12.10 per cwt, down \$3.10 from the previous year. Cash receipts from milk sales totaled \$712 million, down 19.0 percent from 2001. Milk continued as the top ranked Michigan commodity in cash receipts.

Milk: Production, utilization, marketings, and value, 1998-2002

Item	Unit	1998	1999	2000	2001	2002
		Production				
Production						
Total milk produced on farms	Million pounds	5,365	5,455	5,705	5,870	5,945
Milkfat produced	Million pounds	194.7	201.3	208.8	213.1	215.2
Milkfat	Percent	3.63	3.69	3.66	3.63	3.62
Utilization						
Milk used where produced						
Fed to calves	Million pounds	40	37	45	55	55
Used for milk, cream, and butter	Million pounds	5	3	5	5	5
Milk marketed by producers	Million pounds	5,320	5,415	5,655	5,810	5,885
Average return per 100 pounds of milk	Dollars	15.30	14.80	12.90	15.20	12.10
Average return per pound milkfat	Dollars	4.21	4.01	3.52	4.19	3.34
Fluid grade	Percent	99	99	99	99	99
Total cash receipts	1,000 dollars	813,960	801,420	729,495	883,120	712,085
Value						
Value of milk used where produced ¹	1,000 dollars	6,885	5,920	6,450	9,120	7,260
Total value of milk produced	1,000 dollars	820,845	807,340	735,945	892,240	719,345

¹ Includes value of milk fed to calves and milk used by farm households.

Milk cows: Number of operations, by size group, 1998-2002 ¹

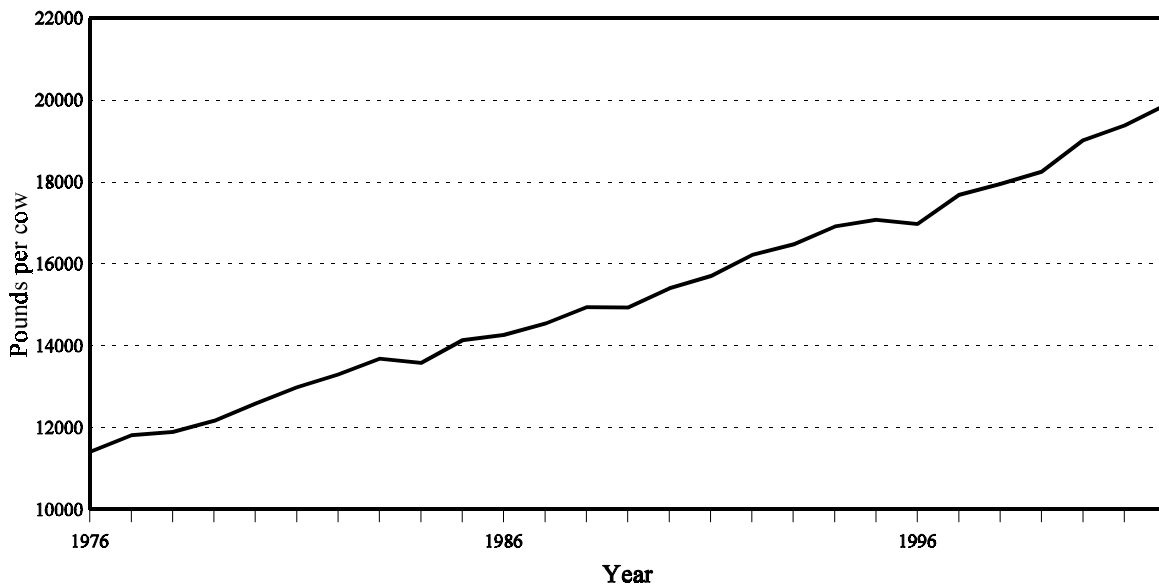
Size group by head	1998	1999	2000	2001	2002
	<i>Number of operations</i>	<i>Number of operations</i>	<i>Number of operations</i>	<i>Number of operations</i>	<i>Number of operations</i>
1-29	950	1,000	1,000	1,050	1,050
30-49	900	700	630	550	500
50-99	1,100	1,000	900	800	750
100-199	810	750	700	620	590
200-499	205	200	215	215	240
500+	35	50	55	65	70
Total	4,000	3,700	3,500	3,300	3,200

¹ An operation is any place having one or more milk cows on hand at any time during the year.

Milk cows: Number by month, 1998-2002

Month	1998	1999	2000	2001	2002
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
January	297	291	298	303	297
February	296	292	296	303	295
March	297	296	296	304	295
April	298	298	299	304	296
May	299	303	301	304	298
June	301	304	304	305	300
July	305	306	302	303	301
August	302	302	302	303	301
September	299	299	300	303	300
October	297	299	302	302	300
November	297	298	299	301	301
December	299	297	300	299	301
Annual	299	299	300	303	299

Annual Milk per Cow, 1976-2002



Milk production: Total by month, 1998-2002

Month	1998	1999	2000	2001	2002
	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>
January	441	442	474	482	490
February	406	410	447	447	456
March	454	463	485	505	510
April	446	454	481	492	496
May	468	486	494	518	520
June	456	465	485	505	500
July	471	474	489	498	501
August	459	462	485	489	506
September	438	444	455	476	482
October	441	454	477	483	495
November	431	441	457	474	485
December	454	460	476	501	504
Annual	5,365	5,455	5,705	5,870	5,945

Milk: Production per cow, by month, 1998-2002

Month	1998	1999	2000	2001	2002
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
January	1,485	1,520	1,590	1,590	1,650
February	1,370	1,405	1,510	1,475	1,545
March	1,530	1,565	1,640	1,660	1,730
April	1,495	1,525	1,610	1,620	1,675
May	1,565	1,605	1,640	1,705	1,745
June	1,515	1,530	1,595	1,655	1,665
July	1,545	1,550	1,620	1,645	1,665
August	1,520	1,530	1,605	1,615	1,680
September	1,465	1,485	1,515	1,570	1,605
October	1,485	1,520	1,580	1,600	1,650
November	1,450	1,480	1,530	1,575	1,610
December	1,520	1,550	1,585	1,675	1,675
Annual	17,943	18,244	19,017	19,373	19,883

Dairy products: Annual production totals, 1998-2002

Product	1998	1999	2000	2001	2002
	<i>1,000 gallons</i>	<i>1,000 gallons</i>	<i>1,000 gallons</i>	<i>1,000 gallons</i>	<i>1,000 gallons</i>
Michigan					
Ice cream, fullfat, total	24,198	19,572	22,781	22,415	27,218
Ice cream, lowfat, total	18,583	17,812	16,079		7,639
Sherbet, total	2,016	1,369	1,696		1,140
Ice cream mix, fullfat	12,161	10,317	11,678	11,599	15,555
Ice cream mix, lowfat	8,729	8,117	8,220	8,263	5,728
Sherbet mix	1,019	722	1,010		727
	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>
East North Central Region ¹					
Cheese, total	2,484.4	2,538.5	2,606.4	2,545.3	2,656.2
Cheese, American type ²	982.9	989.0	952.2	876.3	907.7
Cheese, Italian	1,025.4	1,031.9	1,101.1	1,123.7	1,149.2
Cottage cheese, curd	115,604	110,954	112,892	111,863	105,284
Cottage cheese, creamed	110,229	96,311	102,329	102,140	95,174
Cottage cheese, low fat	78,354	74,009	77,612	81,190	81,735
Condensed skim milk, unsweetened, bulk	119.2	146.6	161.1	122.6	169.5
Dried milk, nonfat for human food	57.0	58.4	57.2	48.5	52.9
Butter	373.3	349.8	327.2	368.2	388.2
Water & juice ices	8,136	7,521	8,098	8,769	8,612
Yogurt, plain and flavored	592.9	624.3	720.7	818.9	816.8

¹ Illinois, Indiana, Michigan, Ohio, and Wisconsin.

² Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

Dairy products: Ice cream, fullfat, total, by month, 1998-2002

Month	1998	1999	2000	2001	2002
	<i>1,000 gallons</i>	<i>1,000 gallons</i>	<i>1,000 gallons</i>	<i>1,000 gallons</i>	<i>1,000 gallons</i>
January	1,644	1,010	1,744	1,472	2,018
February	1,765	1,317	1,724	1,543	2,083
March	2,007	1,652	1,967	1,752	2,109
April	2,271	1,933	1,907	2,352	2,294
May	2,319	1,791	1,771	2,072	2,336
June	2,807	2,283	1,945	2,071	2,436
July	2,643	2,194	1,999	2,397	2,509
August	2,502	2,164	2,084	2,270	2,340
September	2,159	1,626	1,793	1,977	2,208
October	1,591	1,314	1,791	1,840	2,006
November	1,168	990	1,637	1,318	1,477
December	1,322	1,298	1,246	1,430	3,402
Total	24,198	19,572	¹ 22,781	¹ 22,415	27,218

¹ Revised; monthly data are not revised and do not add to the total.

Mink

Mink: Farms, pelts produced and females bred to produce kits, 1999-2003

Year	1999	2000	2001	2002	2003
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
Farms	12	12	11	9	(¹)
Pelts produced	51,000	42,500	54,000	57,000	(¹)
Females bred to produce kits	15,500	11,000	11,800	12,700	12,700

¹ Published in July 2004.

Sheep and Lambs

Michigan sheep operations in 2002 numbered 1,900, up 100 operations from 2001. All sheep and lamb inventory in Michigan on January 1, 2002 was estimated at 72,000 head, up 1,000 head from a year ago. The breeding sheep inventory was 52,000 head. Market sheep and lambs totaled 20,000 head, unchanged from a year earlier. The 2002 Michigan lamb crop (lambs born October 1, 2000 through September 30, 2002) was 55,000 head, up 3,000 head from the previous year.

Sheep and lamb value of production was \$2.97 million. Cash

receipts totaled \$2.55 million for 2002. All sheep and lambs were valued at \$120 per head, up \$10 from the previous year.

Sheep shorn in 2002 totaled 76,000 head. The weight per fleece was 6.1 pounds, compared with 6.2 pounds in 2001. Total wool production in Michigan was 460,000 pounds. Wool production was valued at \$64,000. The average price per pound was \$0.14., up \$0.02 from 2001.

Sheep and lambs: Number on farms by class, January 1, 1999-2003

Class	1999	2000	2001	2002	2003
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>
Breeding sheep 1 year and older					
Ewes	34	38	40	40	41
Rams	3	3	2	2	2
Replacement lambs	7	10	9	10	11
Total market sheep and lambs	18	17	20	20	21
All sheep and lambs	62	68	71	72	75

Sheep and lambs: Number of operations, 1998-2002 ¹

Year	Number
1998	1,600
1999	1,700
2000	1,800
2001	1,800
2002	1,900

¹ An operation is any place having one or more head on hand at any one time during the year.

Sheep and lambs: Lamb crop, 1998-2002

Year	Breeding ewes ¹	Lambs per 100 ewes ¹	Lamb crop
	<i>1,000 Head</i>	<i>Number</i>	<i>1,000 Head</i>
1998	38	121	46
1999	34	132	45
2000	38	121	46
2001	40	125	50
2002	40	133	53

¹ Ewes 1 year and older January 1.

Sheep and lambs: Balance sheet, 1998-2002

Year	All sheep and lambs on hand January 1	Lamb crop	Inshipments	Marketings ¹		Farm slaughter ²	Deaths		All sheep and lambs on hand following January 1
				Sheep	Lambs		Sheep	Lambs	
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>
1998	72	46	8.0	16.0	36.0	2.0	1.0	9.0	62
1999	62	45	5.0	4.0	28.5	2.0	2.5	7.0	68
2000	68	46	2.0	7.5	26.5	2.0	3.0	6.0	71
2001	71	50	1.5	6.5	31.5	2.0	3.5	7.0	72
2002	72	53	3.0	7.0	33.0	2.0	4.0	7.0	75

¹ Includes custom slaughter and state outshipments, but excludes sales within Michigan.

² Excludes custom slaughter for farmers at commercial establishments.

Sheep and lambs: Production and income, 1998-2002

Year	Production ¹	Marketings ²	Average price per cwt		Value of production	Cash receipts ³	Value of home consumption	Gross income
			Sheep	Lambs				
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
1998	4,270	5,715	32.00	69.00	2,710	3,233	397	3,630
1999	3,982	3,225	30.00	69.00	2,579	2,111	397	2,508
2000	3,848	3,250	31.00	75.00	2,654	2,197	431	2,628
2001	4,245	3,752	31.00	70.00	2,833	2,441	403	2,844
2002	4,501	3,961	26.00	70.00	2,970	2,548	403	2,951

¹ Adjustments made for changes in inventory and for inshipments.

² Excludes custom slaughter for use on farms where produced and inter-farm sales within the state.

³ Receipts from marketings and sale of farm slaughter.

Sheep and lambs: Wool production and value, 1998-2002

Year	Sheep shorn	Weight per fleece	Production	Price per pound	Value of production ¹
	<i>1,000 Head</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>Cents</i>	<i>1,000 Dollars</i>
1998	58	7.4	430	31	133
1999	66	7.0	465	14	65
2000	72	6.4	460	14	64
2001	77	6.2	480	12	58
2002	76	6.1	460	14	64

¹ Production multiplied by marketing year average price.

Trout

Michigan's 22 commercial trout operations sold 248,000 pounds of trout in 2002. This was a decrease of 34 percent from last season. Sales were valued at \$663,000 and included sales of foodsize trout (12 inches or longer), stockers (6 to 12 inches), fingerlings (1 to 6 inches) and eggs.

Foodsize trout had sales of 215,000 pounds with an average liveweight of 1.2 pounds per fish. Foodsize sales totaled \$553,000 for an average value of \$2.57 per pound. The major sales outlets were fee fishing at 60 percent of total, 8 percent to processors, and 5 percent direct to consumers. Stocker trout sales totaled 30,000

pounds with an average liveweight of 0.3 pounds per trout. The value of sales, at \$83,000, decreased from \$116,000 and averaged \$2.77 per pound. Live haulers at 26 percent and other producers at 26 percent accounted for the majority of sales followed by fee fishing at 20 percent. Number of fingerlings sold was 100,000, down 41 percent from last year. The value of sales decreased to \$27,000 and averaged \$266.00 per 1,000 fish.

Losses of trout in Michigan amounted to 93,000 fish, weighing 83,000 pounds. Predators accounted for 55 percent of all fish lost.

Trout: Sales by size category, 1998-2002

Size category	Number of fish	Live weight	Sales	
			Total	Average per pound ¹
	<i>1,000</i>	<i>1,000</i>	<i>1,000 dollars</i>	<i>Dollars</i>
Foodsize (12 inches long or more):				
1998	340	350	777	2.22
1999	320	352	859	2.44
2000	330	388	776	2.00
2001	275	330	660	2.00
2002	180	215	553	2.57
Stocker (6-12 inches long):				
1998	320	109	302	2.77
1999	200	65	174	2.67
2000	210	78	207	2.65
2001	110	42	116	2.75
2002	90	30	83	2.77
Fingerlings (1-6 inches long):				
1998	320	17	72	226.00
1999	310	10	80	259.00
2000	250	8	54	215.00
2001	170	4	47	275.00
2002	100	3	27	266.00

¹ Average per thousand fish for fingerlings after 1997.

Trout: Number of operations, 1999-2003

Year	Operations
	<i>Number</i>
1999	39
2000	30
2001	33
2002	33
2003	22